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1. Document ID: US 20030113144 A1

L5: Entry 1 of 35

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113144

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113144 A1

TITLE: Non-fixing type image receiving sheet, method and device for <u>cleaning</u> convexity of non-fixing type image receiving sheet, convexity-<u>cleaning</u> unit, and method and apparatus for forming toner image on image receiving sheet

PUBLICATION-DATE: June 19, 2003

INVENTOR - INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kanazawa, Masaharu	Osaka		JP	
Izutani, Akira	Osaka		JP	
Mizuno, Hiroshi	Ikoma-Shi		JP	
Ikegawa, Akihito	Osaka		JP	
Yogome, Keyaki	Kyoto-Shi		JP	

US-CL-CURRENT: 399/343

ABSTRACT:

Convexity-cleaning method and device for removing toner adhering to a convexity or convexities of an irregular surface of a non-fixing type image receiving sheet. When removing the toner, a contact surface of a cleaning member is brought into contact with the convexity or convexities, the irregular surface is moved relatively to the cleaning member at a first surface moving speed, the contact surface of the cleaning member is moved at a second surface moving speed, and a difference is made between the first and second surface moving speeds.

An image forming apparatus including a toner image forming device for forming a toner image both on an ordinary image receiving sheet and on a non-fixing type image receiving sheet; and a unit-fit part. Any one of a fixing unit and a convexity-cleaning unit can detachably fit to the unit-fit part, and thereby one of the fixing unit and the convexity-cleaning unit fitted to the unit-fit part can be exchanged to the other.

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1300 Dram Desc Image

2. Document ID: US 20030113136 A1

L5: Entry 2 of 35

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113136

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113136 A1

TITLE: Method and apparatus for a non-contact direct transfer imaging system

PUBLICATION-DATE: June 19, 2003

INVENTOR - INFORMATION:

CITY STATE NAME COUNTRY RULE-47 Palos Verdes Estates CA US Wang, Bobo Mu, Taomo Taipei TW Palos Verdes Estates Hu, Jon-Shin US Tsai, Tan-Feng Taichung TW Lin, Chou-Jiung Hsinchu тw Hsinchu Lee, Vincent TW

US-CL-CURRENT: 399/223; 399/343

ABSTRACT:

An imaging system that includes a photoreceptor belt capable of having an electrostatic latent image recorded thereon, a group of developing stations capable of developing a color image on the photoreceptor, and at least one charging means and at least one exposing means to prepare the photoreceptor for desired conditions, such as creating a cleaning patch to remove toner from a toner support member associated with one of the plurality of developing stations.

Full	Title Citation	Front	Review	Classitication	Date	Reference	Sequences	Aftachments	Claims	EMMC	Draw Desc	Image

3. Document ID: US 20030031488 A1

L5: Entry 3 of 35 File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030031488

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030031488 A1

TITLE: Image forming apparatus

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME · CITY STATE COUNTRY RULE-47

Kunishi, TsuyoshiIbaraki-kenJPAsai, JunNagareyama-shiJPOgara, KeizoToride-shiJP

US-CL-CURRENT: 399/343; 399/350

ABSTRACT:

An image forming apparatus includes an image bearing member; driving means for driving the image bearing member; latent image forming means for forming an electrostatic latent image on the image bearing member; developing means for developing the electrostatic latent image on the image bearing member with a developer; a cleaning member, contacted to the image bearing member, for cleaning a surface of the image bearing member; vibration imparting means for vibrating the cleaning member; control means for causing the latent image forming means to form an electrostatic latent image pattern for electrostatically attracting the developer deposited on the cleaning member and for causing the driving means to move the electrostatic latent image pattern to a contact portion where the cleaning member is contacted to the image bearing member.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Dram Desc	Image

4. Document ID: US RE37645 E

L5: Entry 4 of 35

File: USPT

Apr 9, 2002

US-PAT-NO: RE37645

DOCUMENT-IDENTIFIER: US RE37645 E

TITLE: Method and apparatus for removing image forming substance from image holding

member forming processing situation mark

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahashi; Yasuhiro	Tokyo			JP
Miyashita; Yoshiaki	Kawasaki		•	JP
Shinguryou; Satoshi	Kawasaki			JP
Kuramoto; Shinichi	Numazu			JP
Asaba; Youichi	Yokohama			JP
Tanikawa; Kiyoshi	Yokohama			JP
Takahashi; Sadao	Tokyo			JP
Kimura; Yoshiyuki	Tokyo			JP
Ando; Kazuhiro	Satte			JP
Saitoh; Tadashi	Yokohama			JP

US-CL-CURRENT: 399/411; 399/1, 399/343, 399/366, 399/71

ABSTRACT:

In a method and an apparatus for removing an image forming substance such as toner from an image holding member such as a sheet of transfer paper, an unstabilizing agent is provided to the image holding member. An attaching state between the image forming substance and the image holding member stably attaching the image forming substance on a surface thereof is changed to an unstable state by the unstabilizing agent. The image forming substance is separated and removed from the image holding member by making a separating member come in close contact with the image forming substance on the image holding member having the provided unstabilizing agent. A processing situation mark showing a processing situation of removal of the image forming substance is formed in the image holding member. The processing situation mark can be removed from the image holding member by the image forming substance removing processing.

68 Claims, 20 Drawing figures Exemplary Claim Number: 21 Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments

KMMC Draw Desc Image

5. Document ID: US 6175703 B1

L5: Entry 5 of 35

File: USPT

Jan 16, 2001

US-PAT-NO: 6175703

DOCUMENT-IDENTIFIER: US 6175703 B1

** See image for Certificate of Correction **

TITLE: Image forming apparatus and process cartridge

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:				
NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakazono; Yusuke	Toride			JP
Kato; Junichi	Kashiwa			JP
Suwa; Koichi	Kawasaki			JP
Inami; Satoru	Kashiwa			JP
Yoshida; Masahiro	Kashiwa			JP
Ando; Atsutoshi	Kashiwa			JP
Sunahara; Satoshi	Funabashi			JP
Shinohara; Seiichi	Abiko			JP

US-CL-CURRENT: 399/111; 399/159, 399/343, 430/108.1, 430/108.6, 430/108.7, 430/56

ABSTRACT:

An image forming apparatus having at least: an image carrying member for carrying an electrostatic latent image, the image carrying member having a photosensitive layer on a conductive substrate; a developer for developing the electrostatic latent image carrying member on the image carrying member; a developer carrying member for carrying the developer and conveying it to a development area; a control member making contact with the developer carrying member for controlling the coating amount of the developer; and a cleaning member for cleaning the surface of the photosensitive layer of the image carrying member by making contact with the surface of the image carrying member with a contact pressure of 0.15N (15 gf) to 0.89N (90 gf). The photosensitive layer contains at least one kind of polycarbonate resin (I) having a viscosity average molecular weight of 1.5.times.10.sup.4 or less and at least one kind of polycarbonate resin (II) having a viscosity average molecular weight of more than 1.5.times.10.sup.4, the polycarbonate resin (I) is contained in 30% by mass to 95% by mass based on the total content of the resins (I) and (II). The developer has a toner containing toner particles and external additives, and the toner contains (a) 0.1% by mass to 5.0% by mass of a first fine powder with a number average particle size of 0.005 .mu.m to 3.00 .mu.m, and (b) 0.02% by mass to 2.00% by mass of an inorganic second fine powder containing 25% by mass to 90% by mass of a lubricant, as external additives.

30 Claims, 3 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments

KMMC Draw Desc Image

6. Document ID: US 6167215 A

L5: Entry 6 of 35

File: USPT

Dec 26, 2000

US-PAT-NO: 6167215

DOCUMENT-IDENTIFIER: US 6167215 A

** See image for Certificate of Correction **

TITLE: Image forming apparatus

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Miyashiro; Toshiaki Shizuoka-ken JP Takeuchi; Akihiko Susono JP

US-CL-CURRENT: 399/66; 399/302, 399/308, 399/343

ABSTRACT:

An image forming apparatus including an intermediate transfer member, an image forming device for forming a toner image on the intermediate transfer member wherein the toner image on the intermediate transfer member is transferred to a transfer material, a charging member for charging the intermediate transfer member by contacting the intermediate transfer member, wherein discharge is performed between the charging member and the intermediate transfer member by a voltage in which the direct current voltage and the alternating current voltage are superimposed applied to the charging member when the intermediate transfer member is charged by the charging member, and a control device for controlling the voltage applied to the charging member, wherein the control device stops the supply of the alternating current voltage to the charging member after the peak-to-peak voltage applied to the charging member is attenuated.

66 Claims, 22 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 13

Full Title	e Citation Front Review Classincation Date Reference Sequences Attachments	KWWC Draw Desc Image
7	Document ID: US RE36963 E	

L5: Entry 7 of 35

File: USPT

Nov 21, 2000

US-PAT-NO: RE36963

DOCUMENT-IDENTIFIER: US RE36963 E

TITLE: Method and apparatus for regenerating image holding member

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

CITY	STATE	ZIP CODE	COUNTRY
Tokyo			JP
Kawasaki	•		JP
Yokohama			JP
Yokohama			JP
Kawasaki			JP
Numazu			JP
Tokyo			JP
Tokyo			JP
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US-CL-CURRENT: 430/97; 399/343, 430/125

ABSTRACT:

A predetermined processing liquid is supplied by a liquid supplying unit to a sheet of transfer paper having a surface on which toner is stably attached. An adhesive state of the toner on the transfer paper sheet is changed to an unstable adhesive state. The processing liquid is constructed by water, aqueous solutions of a surfactant, a water-soluble polymer, etc. The transfer paper sheet including the processing liquid is fed to a toner separating unit. While the toner is heated and pressurized in the toner separating unit, the toner is attached to a separating roller having a surface on which the softened toner is easily attached. The toner separating unit then separates only the transfer paper sheet from the surface of the separating roller by a separating claw. The processing liquid is removed from the transfer paper sheet by heating the transfer paper sheet, etc. using a drying unit such that the transfer paper sheet can be reused for a copying machine, etc. Thereafter, the transfer paper sheet is discharged onto a paper discharging tray. Accordingly, it is possible to provide a

method and an apparatus for regenerating and reusing the transfer paper sheet by removing the toner therefrom without damaging paper fibers.

39 Claims, 116 Drawing figures Exemplary Claim Number: 21 Number of Drawing Sheets: 57

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Full	Title	Citation	Front	Review	Classitication	Date	Reference	Sequences	Attachments

MMC Draw Desc Image

8. Document ID: US 6125257 A

L5: Entry 8 of 35

File: USPT

Sep 26, 2000

US-PAT-NO: 6125257

DOCUMENT-IDENTIFIER: US 6125257 A

TITLE: Methods and systems for cleaning residual toner from image developing device

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sekine; Takeyoshi	Tokyo			JP
Yamasita; Hiroshi	Shizudka			JP
Fushimi; Hiroyuki	Touma			JP
Ohsaki; Makoto	Yokohama			JP
Fujimdri; Kouta	Minamimachi	•		JP
Kawaishi; Yasunori	Chiba			JP
Okamoto; Jun	Tokyo		•	JP

US-CL-CURRENT: 399/343; 399/169, 399/350, 430/125

ABSTRACT:

The current methods and systems for <u>cleaning</u> residual ultra-fine spherical toner from an image forming surface discloses the application of aspherical toner to a <u>cleaning</u> blade. The aspherical toner is generally larger than the ultra-fine spherical toner which provides a superior image on an image-carrying medium. According to one preferred embodiment of the current invention, the aspherical black toner is placed in a predetermined area outside of a desired image area where the ultra-fine spherical toner in multiple colors is placed. The aspherical toner is transported to the <u>cleaning</u> blade before the multi-color toner reaches the <u>cleaning</u> blade. Since the aspherical toner applied at a contacting edge of the <u>cleaning</u> blade provide an effective seal or trap between the <u>cleaning</u> blade and the image forming surface, the ultra-fine spherical toner is effectively removed from the image forming surface.

39 Claims, 27 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 15

Full Title Citation Front Review Classification Date Reference Sequences Attachments

FWC Draw Desc Image

9. Document ID: US 6115565 A

L5: Entry 9 of 35

File: USPT

Sep 5, 2000

US-PAT-NO: 6115565

DOCUMENT-IDENTIFIER: US 6115565 A

** See image for Certificate of Correction **

TITLE: Sealing member, <u>cleaning</u> apparatus, process cartridge and electrophotographic image forming apparatus

DATE-ISSUED: September 5, 2000

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Noda; Shinya Toride JP

US-CL-CURRENT: 399/102; 399/111, 399/343

ABSTRACT:

A sealing member for a <u>cleaning container</u> for containing a developer removed from an electrophotographic photosensitive drum by a <u>cleaning</u> member contacting the photosensitive drum, includes a developer leakage preventing portion for preventing leakage of the developer from the <u>cleaning container</u>, leakage preventing portion being in contact with one longitudinal end portion of the <u>cleaning member</u>; a developer removing portion for removing the developer from the photosensitive drum, wherein the developer removing portion contacts the photosensitive drum at a position across the photosensitive drum from a spacer for providing a predetermined gap between the photosensitive drum and a developing roller for supplying a developer to the photosensitive drum.

16 Claims, 36 Drawing figures Exemplary Claim Number: 9 Number of Drawing Sheets: 30

Full Title Citation Front Review Classification Date Reference Sequences Attachments

RMIC Draw Desc Image

10. Document ID: US 6057073 A

L5: Entry 10 of 35 File: USPT May 2, 2000

US-PAT-NO: 6057073

DOCUMENT-IDENTIFIER: US 6057073 A

** See image for Certificate of Correction **

TITLE: Toner for developing electrostatic image, image forming method, developing apparatus unit, and process cartridge

DATE-ISSUED: May 2, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hagiwara; Kazuyoshi Tokyo JP

US-CL-CURRENT: 430/108.24; 399/111, 399/252, 399/343, 430/108.3

ABSTRACT:

A toner for developing an electrostatic image has toner particles containing at least a binder resin and a colorant, and an inorganic fine powder. The inorganic fine powder has been treated with a silicone oil having, in its molecular weight distribution as measured by gel permeation chromatography, at least one peak value in the region of molecular weight of from 500 to 15,000 and having at least one peak value or shoulder in the region of molecular weight of from 3,000 to 100,000 at a value greater than the former peak value.

100 Claims, 10 Drawing figures

Exemplary Claim Number: 1 Number of Drawing Sheets: 6

Title Citation Front Review	Classification Date Reference Sequences Attachments MMC	Draw Desc Image
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